

REMARKS

Claims 3-10 are pending in this application. Claim 2 has been canceled herein without prejudice or disclaimer. Claims 3-6 have been amended herein. Claims 7-10 have been indicated as in condition for allowance.

The specification has been amended to correct typographical errors in Tables 1 and 2. These amendments may be seen to be supported by the specification on page 50, lines 18-21.

Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as indefinite.

The rejection is overcome by the amendment to claim 3. As suggested by the Examiner, claim 3 has been amended for clarity to recite "an ~~amino~~ aminoalkyl group-containing silane compound (e)."

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(b) as anticipated by Hirose et al. (U.S. Pat. No. 4,965,311).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(b) as anticipated by Yukimoto et al. (U.S. Pat. No. 5,063,270).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(e) as anticipated by Kalinowski et al. (U.S. Pat. No. 6,130,306).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Regarding allowable subject matter.

The Examiner has indicated that claim 3 would be allowable if rewritten to overcome the rejection under 35 U.S.C. 112, second paragraph and to include the limitations of the base claim and any intervening claims. Applicants have amended claim 3 herein to overcome the rejection under 35 U.S.C. 112, second paragraph, and claim 3 had been rewritten to be in independent form in the amendment of July 1, 2002.

Applicants have amended claims 4-6 herein to depend only from claim 3. Applicants therefore submit that claims 3-6 are allowable.

As the Examiner has indicated that claims 7-10 are allowed, applicants submit that the application is in condition for allowance.

If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned agent at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

Attached hereto is a marked-up version of the changes made by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"


Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
Attorney Docket No. 001550

In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. Please charge any fees for such an extension of time and any other fees which may be due with respect to this paper, to Deposit Account No. 01-2340.

Respectfully submitted,

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Enclosures: Version with markings to show changes made

Q: FLOATERS DAG 001550.draft amend prepared by plb

Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
Attorney Docket No. 001550

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Please amend Table 1 on pages 51-52 as follows:

Table 1

		Inventive Example					
		1	2	3	4	5	6
Curing agent (solution B)							
Bivalent tin catalyst	Tin octylate	3	3	3	3	3	3
	Laurylamine	0.3	0.3	0.3	0.3	0.3	0.3
Tetravalent tin catalyst	Dibutyltin dilaurate						
Amino-containing silane compound	N-(β -aminoethyl)- γ -aminopropyltrimethoxysilane	2	2	2	2	2	2
Dehydrating agent	Vinyltrimethoxysilane	0.2	0.2	0.2	0.2	0.2	0.2
Plasticizer	Polypropylene glycol (average molecular weight = 3,000)	6.5				6.5	
	Paraffin based plasticizer (Exxsol D-130)		6.5				6.5
	Polyoxyalkylene having reactive silicon group in the molecule			6.5			
	Allyl ether group-terminus polyoxyalkylene				6.5		
	Diisodecyl phthalate						
Filler	Precipitated calcium carbonate	20	20	20	20	20	20
Base resin (solution A)							
Curable organic based polymer (d)	Polyoxyalkylene having reactive silicon group in the molecule	100	100	93.5	100	100	
Epoxy-containing silane compound	Polyisobutylene having reactive silicon group in the molecule						100
	γ -Glycidoxypolytrimethoxysilane	2	2	2	2	2	2
Epoxy resin	Bisphenol A-epichlorohydrin type epoxy resin	1	1	1	1	1	1

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(Continued)

	Inventive Example					
	1	2	3	4	5	6
Mixing ratio *	100:10	100:10	100:10	100:10	100:10	100:10
Mixing ability **	+	+	+	+	+	+
Storage stability (surface curing time)	6	6	6	6	6	6
Adhesiveness after storage of curing agent (water resistance)	6	6	6	6	6	6
Elastic Recovery	94%	95%	94%	94%	95%	95%

*:Base resin/curing agent mixing ratio

**: Base resin/curing agent mixing ability

***: Elastic recovery ratio

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Please amend Table 2, pages 58-59 as follows:

Table 2			Comparative Example							
			1	2	3	4	5	6	7	
Curing agent (solution B)										
Bivalent tin catalyst	Tin octylate									
	Laurylamine	3	3	5	5		5			
Tetravalent tin catalyst	Dibutyltin dilaurate	0.3	0.3	0.4	0.4		0.4		0.4	
						5				
Amino-containing silane compound	N-(β -aminoethyl)- γ -aminopropyltrimethoxysilane	2		2	2	2	2	2	2	
Dehydrating agent Plasticizer	Vinyltrimethoxysilane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Polypropylene glycol (average molecular weight = 3,000)		6.5				6.5	6.5	6.5	
	Paraffin based plasticizer (Exxsol D-130)									
	Polyoxyalkylene having reactive silicon group in the molecule									
	Allyl ether group-terminus polyoxyalkylene									
Filler	Diisodecyl phthalate	6.5								
	Precipitated calcium carbonate	20	20		20	20	20	20	20	
Base resin (solution A)										
Curable organic based polymer (d)	Polyoxyalkylene having reactive silicon group in the molecule	100	100	100	100	100	100	100	100	
	Polyisobutylene having reactive silicon group in the molecule									
Epoxy-containing silane compound	γ -Glycidoxypolytrimethoxysilane	2	2	2	2	2	2	2		
Epoxy resin	Bisphenol A-epichlorohydrin type epoxy resin	1	1	1	1	1	1	1	1	

(Continued) (Continued)

		Comparative Example						
		1	2	3	4	5	6	7
Mixing ratio *	Weight ratio (base resin:curing agent)	100:10	100:10	100:2.5	100:8	100:10	100:10	100:10
Mixing ability **	Easiness for weighing and mixing	+	+	+	-	+	+	+
Storage stability (surface curing time)	Initial (Before 50 C x 4 week store)	5	6	6	N. M.	5	6	6
	After 50°C x 4 weeks store	30	6	6	N. M.	5	6	6
Adhesiveness after storage of curing agent (water resistance)	Substrate: plate glass	+	-	-	N. M.	++	+	+
	Substrate: aluminum alloy (anodic oxidation)	+	-	-	N. M.	++	+	+
	Substrate: mortar slabs	-	-	-	N. M.	+	-	-
Elastic Recovery	23°C, 100% elongation 24 hr. set, 1 hr after release	95%	95%	85%	N. M.	55%	95%	93%

*:Base resin/curing agent mixing ratio

**: Base resin/curing agent mixing ability

***: Elastic recovery ratio

N. D.: not detectable, N. M.: not measurable

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IN THE CLAIMS:

Please amend claims 3-6 as follows:

3. (Three Times Amended) A curing agent composition which comprises a hydrolyzable silyl group-containing compound (a), a non-phthalic acid ester based plasticizer (b) having no phthalic acid ester structure in its molecule, and a bivalent tin based curing catalyst (c), wherein at least one species of the hydrolyzable silyl group-containing compound (a) is an ~~amino~~ aminoalkyl group-containing silane compound (e).

4. (Three Times Amended) The curing agent composition according to claim ~~2~~ or 3, wherein the non-phthalic acid ester based plasticizer (b) is at least one compound selected from the group consisting of aliphatic dibasic acid esters, glycol esters, aliphatic esters, phosphoric acid esters, epoxy plasticizers, ester based plasticizers, polyether based plasticizers, polystyrenes, hydrocarbon based plasticizers, butadiene-acrylonitrile copolymers and chlorinated paraffins.

5. (Three Times Amended) The curing agent composition according to claim ~~2~~ or 3, wherein the non-phthalic acid ester based plasticizer (b) is at least one compound selected from the group consisting of polyether based plasticizers and hydrocarbon based plasticizers.

6. (Twice Amended) The curing agent composition according to claim ~~2~~ or 3, wherein the bivalent tin based curing catalyst (c) is at least one species selected from the group consisting of tin octylate, tin naphthenate, tin stearate and tin Versatate.